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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
10/015,778	12/17/2001	Douglas D. Sjostrom	02-35-0385 / 4406 00167-456001		
JOEL R. PETF	7590 02/21/200 ROW	EXAMINER			
Smith & Nephew, Inc.			NGUYEN, VI X		
1450 Brooks R Memphis, TN			ART UNIT	PAPER NUMBER	
, ,	•	3734			
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		02/21/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

					<u> </u>			
Office Action Summary		Application	No.	Applicant(s)				
		10/015,778		SJOSTROM, DOUGLAS D.				
		Examiner		Art Unit				
		Victor X. Ng		3734				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
 If NO period for reply is specified Failure to reply within the set or 	ER, FROM THE MAILING able under the provisions of 37 CF mailing date of this communication d above, the maximum statutory peextended period for reply will, by stater than three months after the maximum status or the maximum status.	G DATE OF THIS R 1.136(a). In no event n. eriod will apply and will e tatute, cause the applica	S COMMUNICATIO t, however, may a reply be to expire SIX (6) MONTHS fror ation to become ABANDON	DN. imely filed in the mailing date of this cor ED (35 U.S.C. § 133).	:			
Status								
1) Responsive to con	nmunication(s) filed on <u>2</u>	9 November 200	<u>06</u> .					
2a) This action is FINA	This action is FINAL . 2b) This action is non-final.							
3) Since this applicat	ion is in condition for allo	owance except fo	or formal matters, pr	rosecution as to the	merits is			
closed in accordar	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) Claim(s) 18-81 is/a	are pending in the applic	ation.	,					
4a) Of the above c	4a) Of the above claim(s) <u>18-24,60-63,66-69 and 78-81</u> is/are withdrawn from consideration.							
5) Claim(s) is/	5) Claim(s) is/are allowed.							
6) Claim(s) <u>25-59,64</u>	<u>-65,70-77</u> is/are rejected	l.						
7) Claim(s) is/								
8)	e subject to restriction ar	nd/or election red	quirement.					
Application Papers								
9) The specification is	objected to by the Exam	miner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not re	equest that any objection to	the drawing(s) be	held in abeyance. Se	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §	119							
12) Acknowledgment is a) All b) Some	s made of a claim for for	eign priority unde	er 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached de	etailed Office action for a	i list of the certific	ed copies not receiv	⁄ed.				
Attachment(s)			_					
1) Notice of References Cited (4)					
				Patent Application				
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 25-43,45-59 and 64-65 are rejected under 35 U.S.C. 102(b) as being anticipated by Porter (U.S. 1,360,016).

Porter discloses in figs. 2,4-5, a cutting instrument having the limitations of the above listed claims, including: a cutting instrument comprises an outer member (4) has an opening bounded by a sharp cutting edge (3), where a helical knife (2) coupled to the outer member for rotation relative to the outer member. The helical knife (2) would inherently has an edge to slide into tough, fibrous tissue to draw the tissue proximally along the helical knife towards the sharp cutting edge. As best seen in figure 2, the helical knife edge is arranged relative to the cutting edge such that the edges align in a plane perpendicular to a longitudinal axis of the instrument which is able to create a shearing action therebetween. Further, it is noted that fig. 4 of Porter can be clearly defined an inner member 5 including a shaft having a helical knife (2) with a v-

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shaped (v-shaped is considered from the curve segment between element 2 and element 3) that defined a sharp, slicing edge which is perpendicular to a longitudinal extent of the slicing edge.

Regarding claims 26-27, wherein the edge of helical knife (2) extends distally through the opening at 7; and where the cutting edge and the edge of helical knife configure to cut tissue.

Regarding claims 33-34 and 50-51, where the device further includes a hub (6), and the cutting edge is located at a distal end of the outer member. The outer member tapers to the cutting edge (fig.2). Furthermore, at best seen in figure 6, the pitch of the helical channel increases from distal end to the proximal end.

Claims 25-41,59,64 and 70-77 are rejected under 35 U.S.C. 102(e) as being anticipated by Veca et al (U.S. 6,053,923).

Veca discloses in figs. 2, 7, a cutting instrument having the limitations of the above listed claims, including: a cutting instrument comprises an outer member (68) has an opening bounded by a sharp cutting edge (98), where a helical knife (74) coupled to the outer member for rotation relative to the outer member. The helical knife would inherently has an edge to slide into tough, fibrous tissue to draw the tissue proximally along the helical knife towards the sharp cutting edge. As best seen in figures 8,10, the helical knife edge is arranged relative to the cutting edge such that the edges align in a plane perpendicular to a longitudinal axis of the instrument which is able to create a shearing action therebetween. Furthermore, the cutting instrument has an inner member 66 which defines an aspiration opening at 96 therein, the aspiration opening locates at a proximal portion of the helical knife. Regarding claims 70-77, Veca discloses the tought, fibrous

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tissue can comprise cartilage, fibroid tissue or meniscal cartilage as claimed in, col.1, lines 32-38.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 44 is rejected under 35 U.S.C. 103(a) as being unpatentable over Porter (U.S. 1,360,016).

Porter discloses the invention substantially as claimed. Although, Porter is silent regarding the inner member and the outer member is in the range of about 0.0005 to 0.002 inches. It would have been obvious matter of design choice to modify the inner member and the outer member is in the range of about 0.0005 to 0.002 inches, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re-Aller, 105 USPQ 233.

Response to Amendment

3. Applicant's arguments filed 11/29/2006 have been considered but are moot in view of new ground(s) of rejections. Applicant is asked to please refer to the modified prior art rejections above where examiner addresses applicant's concerns regarding prior art rejection.

Conclusion

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4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor X. Nguyen whose telephone number is (571) 272-4699. The examiner can normally be reached on M-F (8-4.30 P.M).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hayes can be reached on (571) 272-4697. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Victor X Nguyen Victor X Nguyen Examiner

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VN 2/15/2007

SUPERVISORY PATENT EXAMINER